

WHAT IS CLAIMED IS:

1. A color image forming apparatus having a plural-color image print mode for successively forming images of plural colors, and a single-color
5 image print mode for forming an image of a single color, and capable of forming, in said plural-color image print mode, a frame of single-color image, and thereafter superimposing and forming an image of the next color on the single-color image, said color
10 image forming apparatus having:
 - a fixing apparatus for fixing an image on a recording medium on which an image of plural colors or a single color has been formed; and
 - a temperature controlling portion for
15 controlling a temperature of said fixing apparatus so as to become a target temperature;

wherein said fixing apparatus has a heating member and a pressure member and transports said recording medium to a nip part constituted by said
20 heating member and said pressure member, and

said temperature controlling portion, when plural sheets of print is to be continuously effected, changes over the target temperature of said heating member when a predetermined number of sheets have
25 been printed, and also changes said predetermined number of sheets for which said target temperature should be changed over, during single-color image

print and during plural-color image print.

2. A color image forming apparatus according to
Claim 1, which successively forms images of plural
5 colors on an image bearing member in the plural-color
image print mode, and forms an image of a single
color on the image bearing member in the single-color
image print mode, and further has transferring means
for transferring the images of plural colors or the
10 image of a single color formed on said image bearing
member onto the recording medium.

3. A color image forming apparatus according to
Claim 1, wherein in the plural-color image print mode,
15 the recording medium held by a recording medium
supporting member is repetitively transported to an
image forming portion and images of plural colors are
successively formed on the same recording medium, and
in the single-color image print mode, the recording
20 medium is transported once to the image forming
portion and an image of a single color is formed
thereon.

4. A color image forming apparatus according to
25 Claim 1, which has a plurality of fixing speeds, and
changes the changeover timing of a control target
temperature of said heating member during the single-

color image print mode and during the plural-color image print mode and in conformity with said fixing speeds.

5 5. A color image forming apparatus according to Claim 1, which has a plurality of modes which differ in a number of revolutions of said image bearing member or a recording medium supporting member from each other, and changes the changeover timing of a control target temperature of said heating member
10 during the single-color image print mode and during the plural-color image print mode and in conformity with the number of revolutions of said image bearing member or said recording medium supporting member.

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6. A color image forming apparatus according to Claim 1, wherein said heating member has at least film of a metal or resin and a heat generating member contacting with said film.

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7. A color image forming apparatus having a plural-color image print mode for successively forming images of plural colors, and a single-color image print mode for forming an image of a single
25 color, and capable of forming, in said plural-color image print mode, a frame of single-color image, and thereafter superimposing and forming an image of the

next color on the single-color image, said color image forming apparatus having:

a fixing apparatus for fixing an image on a recording medium on which an image of plural colors
5 or a single color has been formed; and

a temperature controlling portion for controlling a temperature of said fixing apparatus so as to become a target temperature;

wherein said fixing apparatus has a heating
10 member and a pressure member and transports said recording medium to a nip part constituted by said heating member and said pressure member, and

said temperature controlling portion, when plural sheets of print is to be continuously effected,
15 lowers the target temperature of said heating member in the course of the continuous print, and the lowered amount of the target temperature relative to the number of continuously printed sheets during single-color image print is made greater than the
20 lowered amount of the target temperature relative to the number of continuously printed sheets during plural-color image print.

8. A color image forming apparatus according to
25 Claim 7, which successively forms images of plural colors on an image bearing member in the plural-color image print mode, and forms an image of a single

color on the image bearing member in the single-color
image print mode, and further has transferring means
for transferring the images of plural colors or the
image of a single color formed on said image bearing
5 member onto the recording medium.

9. A color image forming apparatus according to
Claim 7, wherein in the plural-color image print mode,
the recording medium held by a recording medium
10 supporting member is repetitively transported to an
image forming portion and images of plural colors are
successively formed on the same recording medium, and
in the single-color image print mode, the recording
medium is transported once to the image forming
15 portion and an image of a single color is formed
thereon.

10. A color image forming apparatus according
to Claim 8, which has a plurality of fixing speeds,
20 and wherein a lowered amount of a target temperature
relative to the number of continuously printed sheets
at a first fixing speed is made greater than the
lowered amount of the target temperature relative to
the number of continuously printed sheets at a second
25 fixing speed.